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JAPANESE PATENT OFFICE

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(71) Applicant: **YAMAHA MOTOR CO LTD**

(72) Inventor: **ISAKA YOSHIHARU**
SUZUKI SADAHIDE

(54) **INTAKE SYSTEM FOR ENGINE**

valve 7 on the side of the spark plug 12.

(57) Abstract:

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PROBLEM TO BE SOLVED: To stabilize combustion under a low load operation by a tumble even when an air-fuel mixture is lean and increase output under a high load operation by enlarging a cross-sectional area of a duct of an inlet port.

SOLUTION: To a cylinder head 2 having two inlet valves 7 per cylinder, a spark plug 12 is disposed on a side of one of the inlet valves. An inlet port 9 is supplied with an air-fuel mixture from a carburetor 15. A wall 22 which partitions an intake duct downstream of a throttle valve into a throttle valve open side and a throttle valve close side is formed in the carburetor 15. The throttle valve open side is connected to a side of a cylinder body 3 at the end of an upstream of the inlet port 7 through a high load duct 16. The throttle valve close side is connected to a portion which is on a side of a valve cam chamber 5 at the end of the upstream of the inlet port 9 and extends toward the other inlet

